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ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

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August 11, 2006

Jeff Parsley, Plant Manager
Tennessee Valley Authority
Shawnee Fossil Plant
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West Paducah, Kentucky 42086

William Murphie, Manager
Portsmouth/Paducah Project Office
U.S. Department of Energy
1017 Majestic Drive, Suite 200
Lexington, Kentucky 40513

RE: Review of the "TENNESSEE VALLEY AUTHORITY (TVA) - SHAWNEE FOSSIL PLANT (SHF) - PADUCAH GASEOUS DIFFUSION PLANT (PGDP) LETTER OF AGREEMENT" dated March 13, 2006 and the "SAMPLING AND ANALYSIS PLAN FOR PURGE WATER FROM GROUNDWATER WELLS ASSOCIATED WITH THE TENNESSEE VALLEY AUTHORITY SHAWNEE FOSSIL PLANT" dated May 2006

Mr. Parsley and Mr. Murphie:

The Kentucky Division of Waste Management (KDWM) and the Kentucky Division of Water have reviewed the above referenced Letter of Agreement that was received by the KDWM on June 19, 2006. Additionally, the KDWM has reviewed the above referenced Sampling and Analysis Plan which was also received on June 19, 2006.


The wastewaters generated at the TVA Shawnee Fossil Plant as a result of quarterly sampling of groundwater monitoring wells and decontamination of drilling equipment can be characterized and managed in accordance with the Letter of Agreement between TVA and the Department of Energy (DOE) and the Sampling and Analysis Plan. With regards to the Sampling and Analysis Plan, the KDWM has two clarifying statements:

1. Should the initial quarterly analytical results indicate the presence of trichloroethylene (TCE) in the sampled media, then the purge/decontamination water from subsequent sampling events during a given year should either be analyzed to determine the presence of TCE or it should be assumed that the

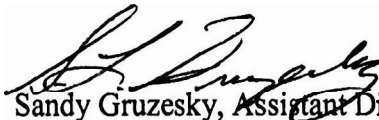
purge/decontamination water contains TCE and it should be managed in accordance with the Letter of Agreement.

2. The Sampling and Analysis Plan provides for a statistical sampling approach should multiple containers of purge/decontamination water be generated during a sampling or drilling event. If the statistical approach is applied and the laboratory analysis of the sampled container indicates the presence of TCE, then the remaining containers should either be analyzed to determine the presence of TCE or it should be assumed that TCE is present at similar concentrations in the purge/decontamination water in those containers and it should be managed in accordance with the Letter of Agreement.

With regards to the disposition of the purge/decontamination water, DOE should ensure that the purge/decontamination water is properly managed through a KPDES permitted wastewater treatment facility at the site, as specified in the Letter of Agreement.



Anthony R. Hatton, Assistant Director
Division of Waste Management



Sandy Gruzesky, Assistant Director
Division of Water

c: Wally Blair
Gary Morgan
April Webb
Larry Sowder